PTC/SB/66 (03-09)
Approved for use through 04/30/2009. CIMB 0651-0031
U.S. Patent and Tredemark Office; U.S. DEPARTMENT OF COMMERCE

| Applicant/Palant Owner:Loiz et al | Under the Paperwork Reduction Act of 1865, no parsons are required to respond to a collection of Information unless it displays a valid OMS control number. |
|--|--|
| Taiwan Samiconductor Heterostructures Having Reduced Dislocation Pile-Ups Taiwan Samiconductor Manufacturina Company, Ltd., a comporation (rype of Assignee), a.g., corporation, pannarship, unkneely, government agency, eccistates that it is: 1. X the assignee of the entire right, title, and interest in; (The extent (by percentage) of its ownership interest is | STATEMENT UNDER 37 CFR 3.73(b) |
| Taiwan Samiconductor Heterostructures Having Reduced Dislocation Pile-Ups Taiwan Samiconductor Manufacturina Company, Ltd., a comporation (rype of Assignee), a.g., corporation, pannarship, unkneely, government agency, eccistates that it is: 1. X the assignee of the entire right, title, and interest in; (The extent (by percentage) of its ownership interest is | Application No./Patent No.: 7 375 385 Fladflestin Date: 5/20/2008 |
| Taiwan Samloonductor Manufacturina Company, Ltd., a | |
| 1. | The state of the s |
| 1. | Taiwan Semiconductor Manufacturing Company, Ltd., a corporation |
| 1. | (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government egency, etc. |
| 2. an assignee of less than the entire fight, title and interest in (The axiont (by percentage) of its ownership interest is | states that it is: |
| The extent (by percentage) of its ownership interest is | _ |
| the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either: A. — An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel Frame or for which a copy thereof is attached. OR E. X. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: Christopher Leitz, Christopher Vinals, Richard Westhoff, Vicky Yang, and Matthew Currle. 10. Ambert/Yava Siveterns Corporation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 014787/0378, or for which a copy thereof is attached. 2. From: _Ambert/Yava Siveterns Corporation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: To: To: To: To: To: To: To: To: | 2. an assignee of less then the entire right, title and interest in |
| the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either. A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded to the United States Patent and Trademark Office at Reel ooply thereof is attached. OR E. X. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignse as follows: 1. From: Christopher Leitz, Christopher Virals, Richard Westhoff, Vicky Yang, and Matthew Currle. To: AmberWave Systems Comparation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 0123548/0183, or for which a copy thereof is attached. 2. From: AmberWave Systems Comparation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.05) The understable (whose title is guipplied below) is authorized to act on behalf of the assignee. 2 | |
| A. An assignment from the inventoricy of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel Frame or for which a copy thereof is attached. OR E. X. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows: 1. From: Christopher Leitz, Christopher Vinals, Richard Westhoff, Vicky Yang, and Matthew Currle. 1. From: Christopher Leitz, Christopher Vinals, Richard Westhoff, Vicky Yang, and Matthew Currle. 1. From: Christopher Leitz, Christopher Vinals, Richard Westhoff, Vicky Yang, and Matthew Currle. 1. From: AmberWave Systems Corporation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 011278/0378, or for which a copy thereof is attached. 2. From: AmberWave Systems Corporation To: Talvan Semiconductor Manufacturing Company, Ltd. The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: | the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) |
| in the United States Patent and Trademark Office at Reel | |
| B. X A chain of title from the inventor(s), of the patent application/patent identified above, to the current essignee as follows: 1. From: Christopher Leitz, Christopher Vinels, Richard Wosthoff, Vicky Yang, and Matthew Currle To: AmberWave Systems Corporation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 0127870378, or for which a copy thereof is attached. 2. From: AmberWave Systems Corporation To: Talvan Semiconductor Migrufacturing Company, Ltd. The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: The document was recorded in the United States Patent and Trademark Office at Reel Frame Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 OFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 OFR 3.11. NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 OFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.03) The understands (whose title is guipelied below) is authorized to act on behalf of the assignee. 2 | in the United States Patent and Trademark Office at Reel, Frame, or for which a |
| To: AmberWave Systems Corporation The document was recorded in the United States Patent and Trademark Office at Reel/Frame 01272/0375, or for which a copy thereof is attached. 2. From: AmberWave Systems Corporation To: Tatvan Semiconductor Manufacturing Company, Ltd. The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023849/0183, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel Frame of the United States Patent and Trademark Office at Reel Frame from or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordetion pursuant to 37 CFR 3.11. INOTE: A separate copy (i.e., a true copy of the original assignment document(si) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08) The understate (unloss title is supplied below) is authorized to act on behalf of the assignee. \$\frac{3 \in 26 \in 20 \in \text{ Director of Intellectual Property}}{1 \in \text{ Director of Intellectual Property}} | |
| 2. From: AmbatWave Systems Congration To: Talwan Semiconductor Manufacturing Company, Ltd. The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023345/0183, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel Company and the | From: <u>Christopher Leltz, Christopher Vinels, Richard Westhoff, Vicky Yang, and Matthew Currie</u> To: <u>AmberWave Systems Corporation</u> |
| The document was recorded in the United States Patent and Trademark Office at Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel Frame or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recorded on pursuant to 37 CFR 3.11. [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.05) The understate (whose title is supplied below) is authorized to act on behalf of the assignee. 3 2 6 20 11 Determined or Typed Name Director of Intellectual Property Printed or Typed Name | |
| Reel/Frame 023848/0183, or for which a copy thereof is attached. 3. From: To: The document was recorded in the United States Patent and Trademark Office at Reel Frame from the Copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. INOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.05) The understable (whose title is guipplied below) is authorized to act on behalf of the assignee. Size Director of intellectual Property Printed or Typed Name | Taxabata and Company Company |
| The document was recorded in the United States Patent and Trademark Office at Reel Frame or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recorded no pursuant to 37 CFR 3.11. INOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.00] The understands tuniosa title is supplied below) is authorized to act on behalf of the assignee. Signature of the description of | The document was recorded in the United States Patent and Trademark Office at Reel/Frame <u>023848/0183</u> , or for which a copy thereof is attached. |
| ReelFrame | |
| As required by 37 CFR 3.73(b)(1)(f), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11. NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the conditions of the division of the satisfactor. See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the condition of the division of the satisfactor. See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the records of the USPTO. See MPEP 302.09 See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the records of the USPTO. See MPEP 302.09 See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the records of the USPTO. See MPEP 302.09 See MPEP 302.09 The understands (who say title is guipplied below) is authorized to act on behalf of the assignment in the records of the USPTO. See MPEP 302.09 See M | |
| assignee was, or concurrently is being, submitted for recorded on pursuant to 37 CFR 3.11. [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.05] The understands (whose title is guipplied below) is authorized to act on behalf of the assignment in the records of the USPTO. See MPEP 302.05] Left Charroot. Signature Director of Intellectual Property Printed or Typed Name | Additional documents in the chain of title are listed on a supplemental sheet(s). |
| Division in accordance with 37 CPR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.09 The understand (whose title is supplied below) is authorized to act on behalf of the assignee. Comparison | |
| Signature Selfs Charlost Reith Charlost Printed or Typed Name Director of Typed Name Title | Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP |
| Xeith Chanrol Director of Intellectual Property Printed or Typed Name Title | 3/26 2017 |
| Printed or Typed Name Title | |
| | Printed or Typed Name Title |

This collection of information is required by 37 CPR 3.73(b). The luturouslate is required to obtain or retain a benefit by the public work of LEPRO to processy an explication. Confidentially is prevented by \$4 LLS. C. 12 and 57 CPR 1.11 and 1.4. This collection is self-insided to late (Entimates to complete, including patheting, preparing, and submitting the completed application form to the USPTO. This will vary depending upon the individual resear. Any comments on the amount of time by our require to complete the form entire transposines for reducing this burden, should be sent to the CRHA information Officer, U.S. Patent and Thademark Office, U.S. Department of Commence, P.O. Box (1400, Assemding, VA 2233-1450). DO NOT SEND FIES OR COMPLETED FORMST OT 1185 ADDRESS. SEND TO Commendate on the Pattents P.O. Box V459, Assexanding, VA 2233-1450.